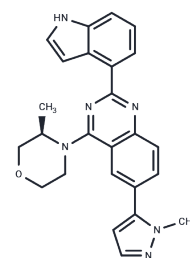


SKLB-197

Chemical Properties

CAS No. : 2713577-16-1
 Formula: C₂₅H₂₄N₆O
 Molecular Weight: 424.5
 Storage: Store at low temperature
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	SKLB-197 is a potent and highly selective inhibitor of ataxia telangiectasia and Rad3-related kinase (ATR) with an IC ₅₀ value of 0.013 μM and minimal activity against more than 402 other kinases. SKLB-197 shows strong antitumor efficacy in ATM-deficient tumors both in vitro and in vivo, while also exhibiting favorable pharmacokinetic properties for oncology research.
Targets(IC ₅₀)	ATM/ATR
In vitro	In enzymatic assays, SKLB-197 inhibited ATR kinase (IC ₅₀ = 13 nM) with selectivity over ATM and DNA-PK. In cellular models, it inhibited UV- or Gemcitabine-induced CHK1 phosphorylation and demonstrated antiproliferative activity against cancer cells with high replication stress, leading to cell cycle arrest and apoptosis [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (188.46 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3557 mL	11.7786 mL	23.5571 mL
5 mM	0.4711 mL	2.3557 mL	4.7114 mL
10 mM	0.2356 mL	1.1779 mL	2.3557 mL
50 mM	0.0471 mL	0.2356 mL	0.4711 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Bin H,et al. Discovery of a potent and highly selective inhibitor of ataxia telangiectasia mutated and Rad3-Related (ATR) kinase: Structural activity relationship and antitumor activity both in vitro and in vivo. Eur J Med Chem. 2022 Feb 12;232:114187

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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